Labeeb Hasan Zaker

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HIGHLIGHTS OF QUALIFICATION

- **Goal-oriented** Programmer with strong commitment to **collaboration** and **solutions-oriented-problem-solving**
- **Self-motivated** Programmer with high level of experience working on **~4** personal projects
- Responding to challenges by designing and developing **dry** and **efficient** code through projects
- **Passionate** and **hardworking** with penchant for **meeting deadlines** via completing milestones for projects on set time

SKILLS

- ***Front-end:*** HTML5, CSS3, jQuery   ***Languages:*** JavaScript, Python, C/C++, Matlab
- ***Back-end:*** Node.JS, MongoDB, Rest API   ***Frameworks:*** Bootstrap4, Express.JS, Git, ReactJS

PERSONAL PROJECTS

BloggersInc| HTML5, Semantic UI, CSS3, JavaScript, JQuery, Node.JS, Express.JS
- Designed social media site which allows users to create blog posts, make comments and edit them.
- Used **MongoDB** to organize and store non-relational databases of **~30** users, blogs and comments
- Constructed a **secure** user login form using **Passport.JS** library

Vehicle Collision Avoidance Program|Python3
- Lead development of an adaptive **Python** program that could detect obstacles, road conditions, and lane markers using **OpenCV, NumPy, matplotlib** libraries
- Employed **NumPy** to account for **data processing** on arrays of integer coordinates, thus increasing **accuracy** of computer detection results on lanes
- Implemented **CV2** library to **visualize** the detection results on various videos or images

Personal Portfolio| HTML5, Bootstrap4, CSS3, JavaScript, JQuery, Node.JS, Express.JS
- Created portfolio site where people can learn more about me, learn about my projects, and contact me.
- Improved **site-responsiveness**, by adding **Bootstrap4** built-in **responsive breakpoints**, which adjusts and aligns the content based on current window size
- Refined **communication** service by integrating **node-mailer** library to handle over a **100** monthly emails

CampInsiders| HTML5, Bootstrap4, CSS3, JavaScript, JQuery, Node.JS, Express.JS
- Designed a review site which allows users to create, add reviews, and comments to campgrounds
- Integrated **Google Maps API** to allow the users to view locations on the website
- Used **MongoDB** and **JavaScript** to create an interactive search bar to filter campgrounds based on input

EDUCATION AND INVOLVEMENT

Mechatronics Engineering (GPA- 3.75)
MCMASTER UNIVERSITY   SEPTEMBER 2018 - APRIL 2022
Relevant courses: Engineering Computation (Python, Grade: A+), Programming for Mechatronics (C, Grade: A)

McMaster Eco-Car Club CAVS Programmer   SEPTEMBER 2019 – PRESENT
- Implemented a **Matlab** code to receive data from the car sensors (**Sensor Fusion**)
- **Collaborated** with teammates on developing the ACC (Adaptive Cruise Control) algorithm using **Matlab**